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Applicant : Karsten Eulenberg et al
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Director of the United States Patent
and Trademark Office
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DRAFT

I, Dr. Marcus Geese, hereby declare as follows:

1. Experiments were carried out under my direction and control which show the effects of RNAi mediated loss of function in 3T3-L1 adipocytes. These experiments show that
- a knockout of SAC2 by an RNAi molecule leads to a decreased expression of adipocyte markers such as PPARgamma (Figure 1) and aP2 (Figure 2) throughout adipogenesis,
 - a SAC2 knockout results in a decreased triglyceride content (Figure 3) through adipogenesis,
 - a SAC2 knockout reduces the free fatty acid uptake in adipocytes (Figure 4) and
 - a knockout of SAC2 leads to an increase of insulin-stimulated glucose uptake (Figure 5).

The experiments were conducted as shown in the attached document entitled "CG7956 Homolog in Vitro Validation".

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